1/03/21

O LO: (Starter) O LO: Can I add and subtract multiples of 100 and 1000 with a 4-digit number mentally?

(Main) O LO: Can I translate and draw shapes on a coordinates grid?

For more information on the tasks for this lesson and for the rest of the week, click the link on the timetable titled 'Maths – weekly input'.

<u>Starter:</u>

Complete the addition and subtraction sums below. Work them out mentally, thinking about your knowledge of thousands and hundreds in your place value:

1. 5,500 + 300 =
2. 2,400 + 3,500 =
3. 2,200 + 600 =
4. 2,700 + 3,800 =
5. 6,200 + _____= 7,000 =
6. 7,600 – 600 =
7. 7,600 – 700 =
8. 9,000 – 100 =
9. 8,800 – 2,500 =

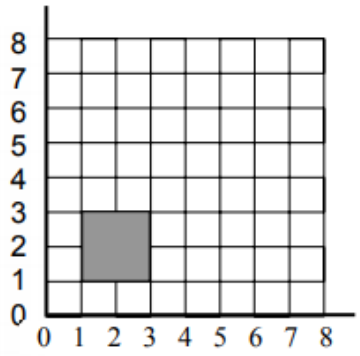
Place Value Grid

M	HTH	TTH	TH	H	T	U	t	h
Millions	Hundred thousands	Ten thousands	Thousands	Hundreds	Tens	Units	Tenths	Hundredths

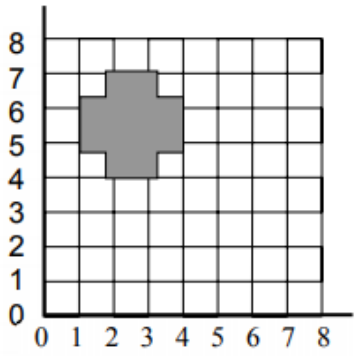
Main:

Work through the translating shapes activities below:

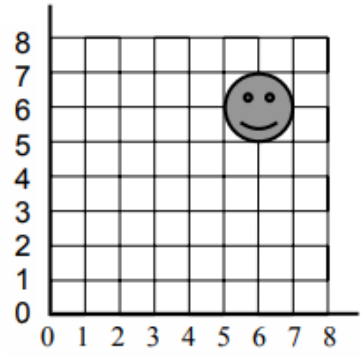
1. Draw the shapes after they have been translated:



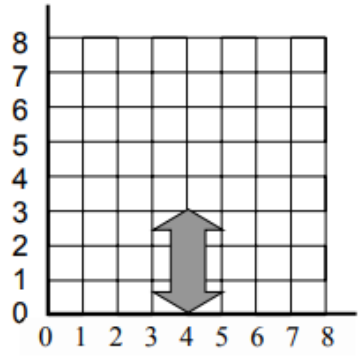
Translate **3** units to the **right**.



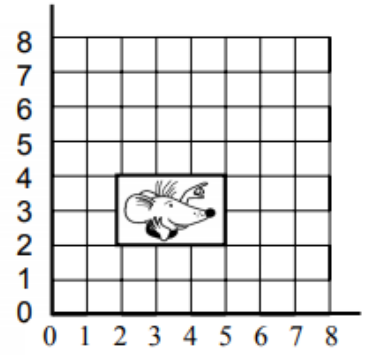
Translate **4** units **down**.



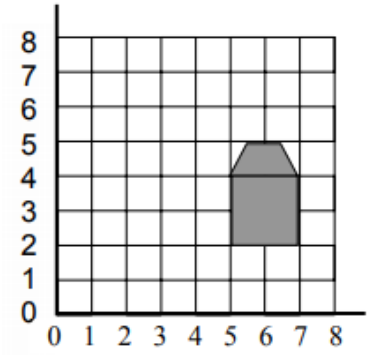
Translate **5** units to the **left**.



Translate **4** units **up**.

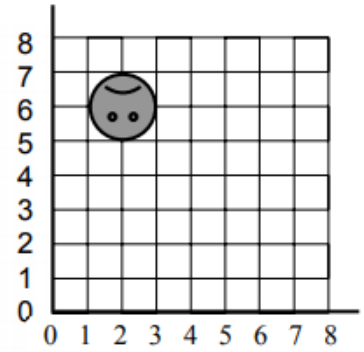


Translate **4** units **up** and 3 units to the **right**.

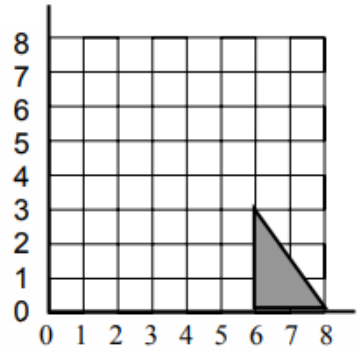


Translate **5** units to the **left** and **1** unit **up**.

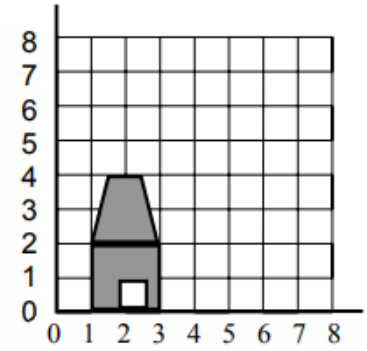
1. Draw the shapes after they have been translated:



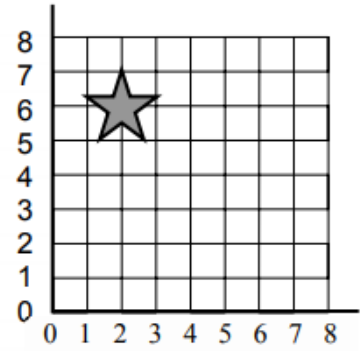
Translate **4** units to the **right** and **3** units **down**.



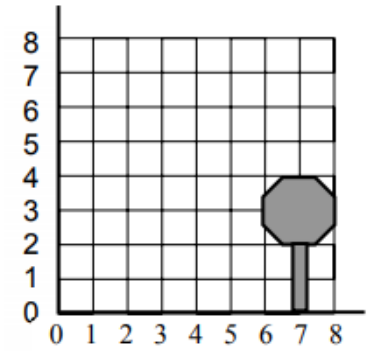
Translate **5** units to the **left** and **4** units **up**.



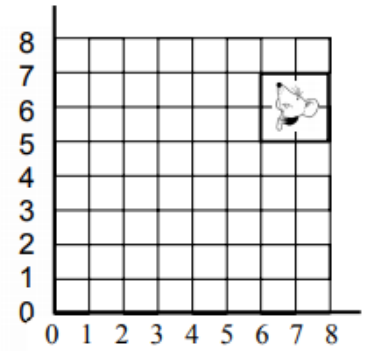
Translate **5** units to the **right** and **3** units **up**.



Translate **2** units to the **right** and **4** units **down**.



Translate **4** units to the left and **3** units **up**.



Translate **5** units to the **left** and **2** units **down**.

Answers (Contd)

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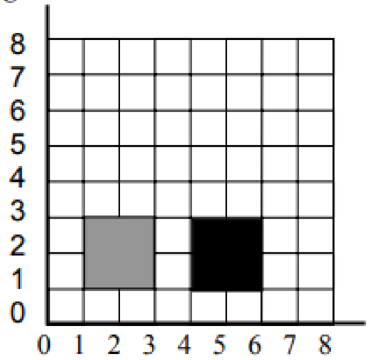

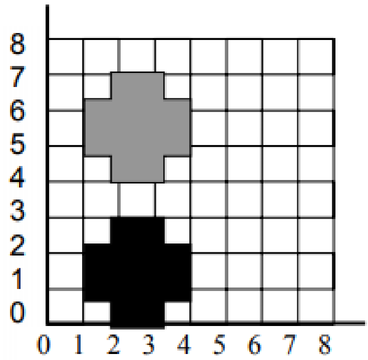

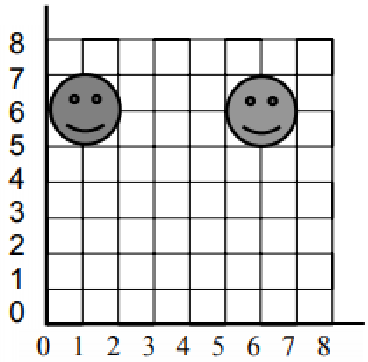

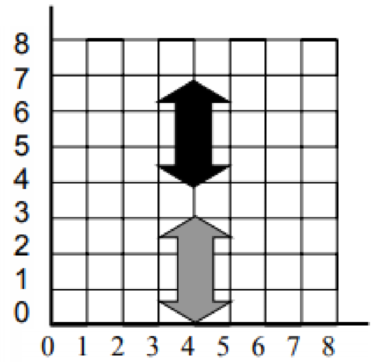

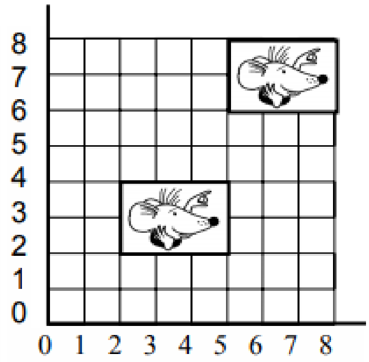

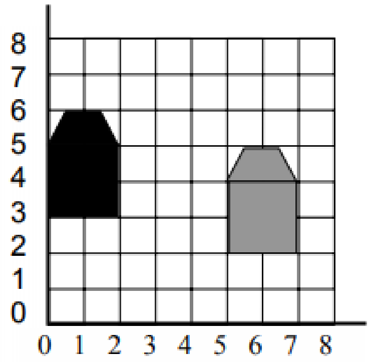

Answers (Contd)

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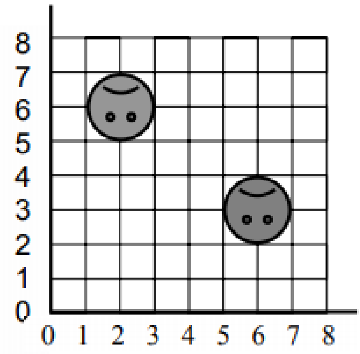
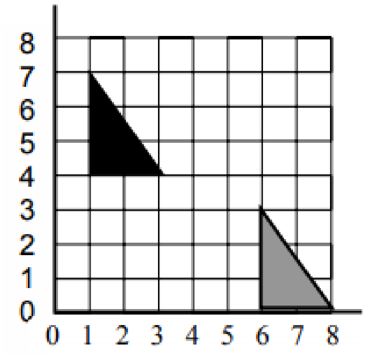
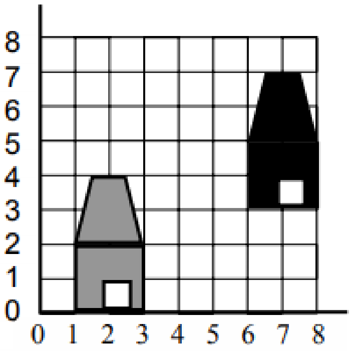
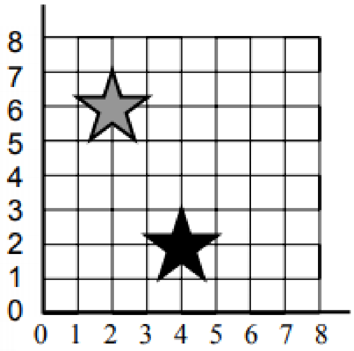
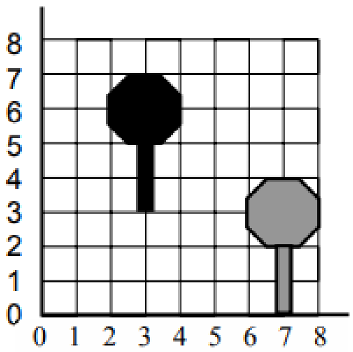
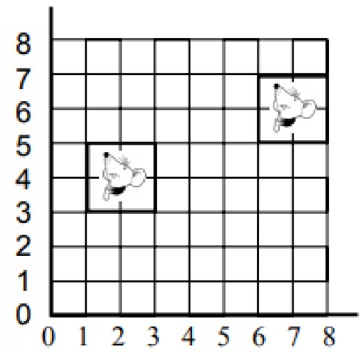




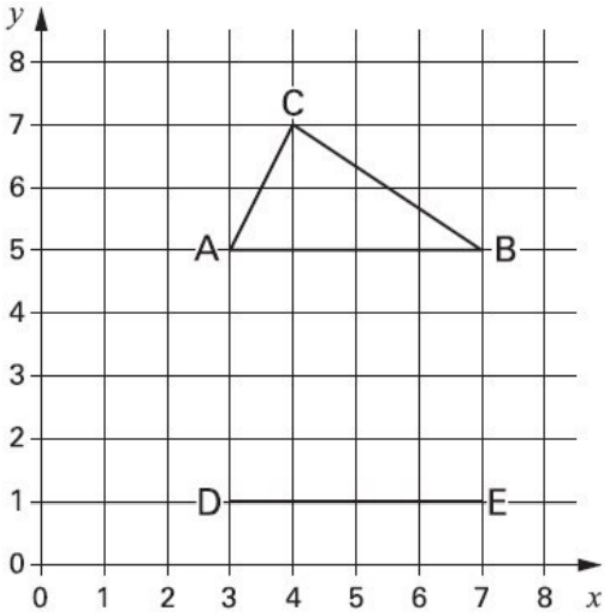








Q1. Kyle has drawn triangle **ABC** on this grid.



Holly has started to draw an **identical** triangle **DEF**.

What will be the coordinates of point **F**?

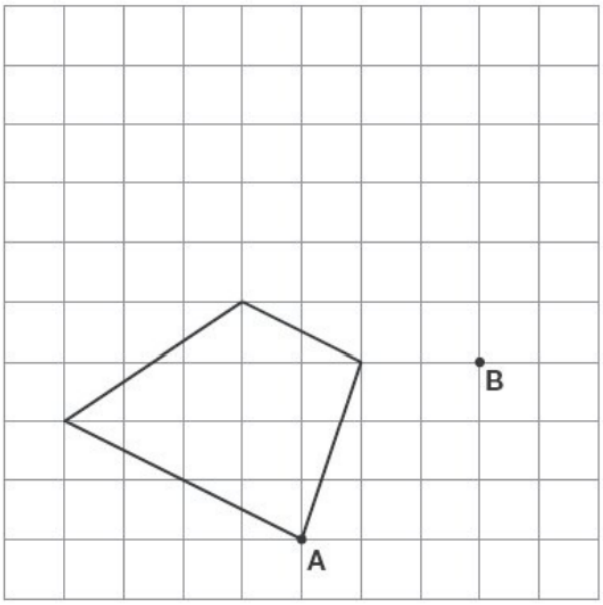
(,)

Q2. Here is a quadrilateral on a square grid.

The quadrilateral is translated so that point **A** moves to point **B**.

Draw the quadrilateral in its new position.

Use a ruler.



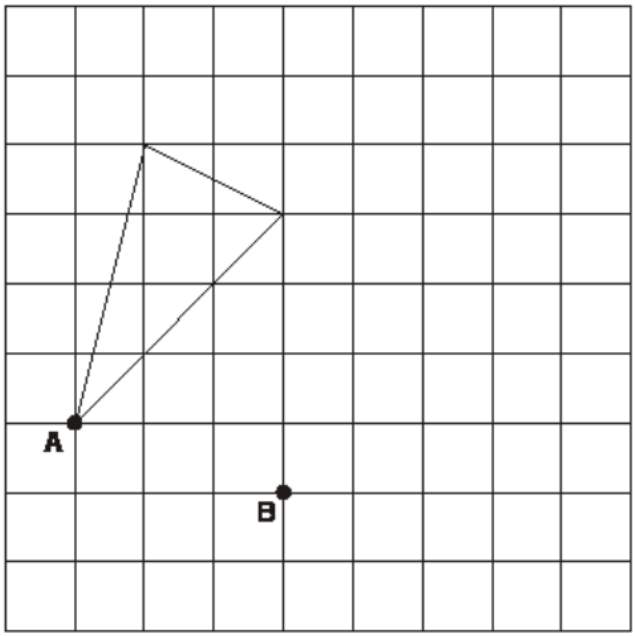
1 mark

Q3. Here is a triangle on a square grid.

The triangle is translated so that point **A** moves to point **B**.

Draw the triangle in its new position.

Use a ruler.



1 mark

M1. (4, 3)

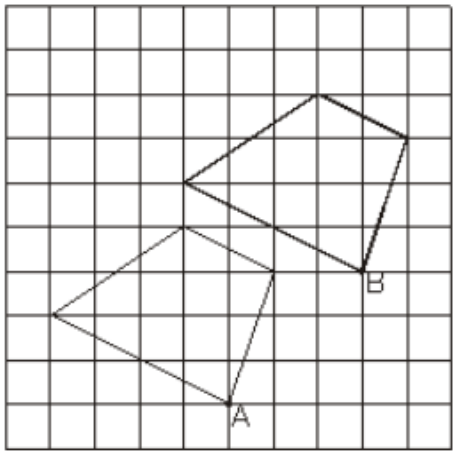
Coordinates must be written in the correct order.

Accept (6, 3), (4, –1) or (6 –1)

Accept answers written on the diagram, with or without brackets and commas.

[1]

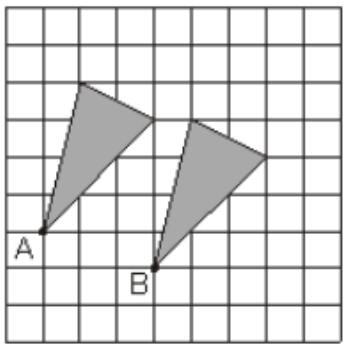
M2. Diagram completed as shown:



Accept slight inaccuracies in drawing

[1]

M3. Diagram completed as shown:



Accept slight inaccuracies in drawing